

## ABSTRACT

A thin and large high toughness die-cast product is provided that is formed from an Al-Mg casting alloy having the composition  $3.5 \text{ wt \%} \leq \text{Mg} \leq 4.5 \text{ wt \%}$ ,  $0.8 \text{ wt \%} \leq \text{Mn} \leq 1.5 \text{ wt \%}$ ,  $\text{Si} < 0.5 \text{ wt \%}$ ,  $\text{Fe} < 0.5 \text{ wt \%}$ , a sum  $(\text{Ti} + \text{Zr})$  of amounts of Ti and Zr added of equal to or greater than  $0.3 \text{ wt \%}$ , and a ratio  $(\text{Ti/Zr})$  of the amounts of Ti and Zr added of at least  $0.3$  but not more than  $2$ , with the balance being Al.